

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120915\
 Data File : BF083673.D
 Acq On : 10 Dec 2015 8:45
 Operator : UM/IZ
 Sample : G4582-04DL 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Quant Time: Dec 10 12:29:12 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 09 00:23:35 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	130423	20.00	ng	-0.02
21) Naphthalene-d8	7.57	136	506278	20.00	ng	-0.03
38) Acenaphthene-d10	10.36	164	225489	20.00	ng	-0.02
63) Phenanthrene-d10	12.76	188	354077	20.00	ng	-0.02
75) Chrysene-d12	16.97	240	297563	20.00	ng	-0.02
86) Perylene-d12	18.63	264	253060	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	4.01	112	68884	8.01	ng	0.03
7) Phenol-d6	5.29	99	112709	9.81	ng	0.01
23) Nitrobenzene-d5	6.54	82	69207	6.38	ng	0.01
41) 2,4,6-Tribromophenol	11.68	330	14478	7.21	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	135237	8.44	ng	-0.02
78) Terphenyl-d14	15.39	244	93606	7.40	ng	-0.02

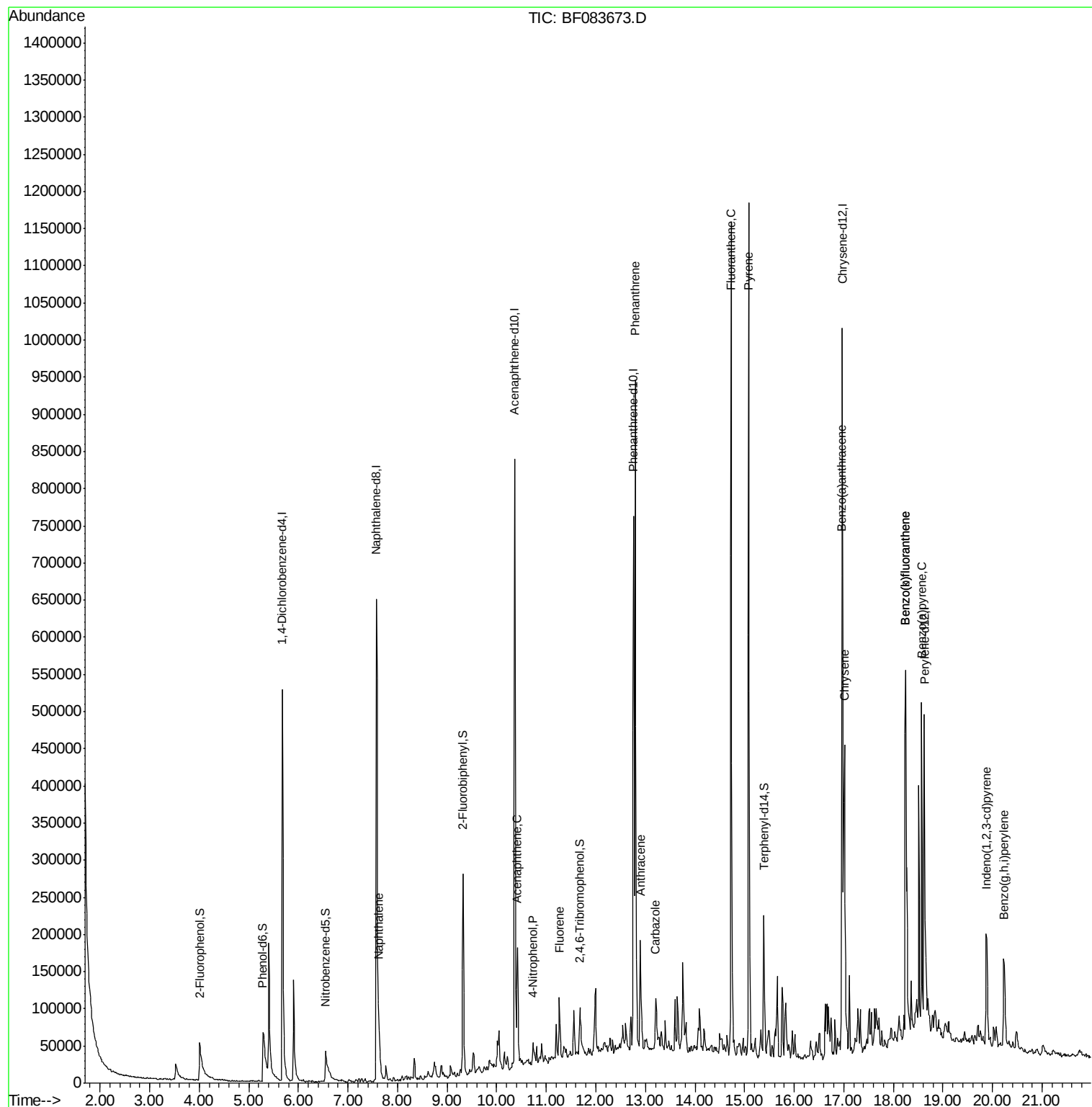
Target Compounds				Qvalue		
31) Naphthalene	7.62	128	87361	3.26	ng	99
51) Acenaphthene	10.42	154	54568	3.91	ng	98
55) 4-Nitrophenol	10.73	139	8962	5.17	ng	# 15
57) Fluorene	11.26	166	38672	2.29	ng	97
70) Phenanthrene	12.80	178	530906	26.10	ng	98
71) Anthracene	12.90	178	117168	5.56	ng	96
72) Carbazole	13.21	167	62196	3.44	ng	98
74) Fluoranthene	14.73	202	718365	34.52	ng	99
77) Pyrene	15.08	202	621194	29.00	ng	# 95
80) Benzo(a)anthracene	16.96	228	291469	16.74	ng	96
82) Chrysene	17.01	228	287231	16.45	ng	100
85) Indeno(1,2,3-cd)pyrene	19.87	276	111829	9.49	ng	# 100
87) Benzo(b)fluoranthene	18.25	252	414286	28.75	ng	99
88) Benzo(k)fluoranthene	18.25	252	414286	26.09	ng	# 95
89) Benzo(a)pyrene	18.57	252	205923	14.64	ng	97
91) Benzo(g,h,i)perylene	20.24	276	110984	10.59	ng	92

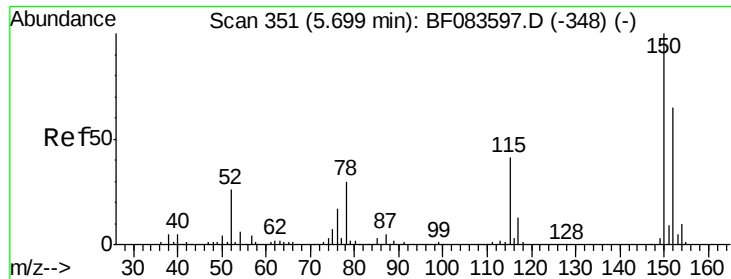
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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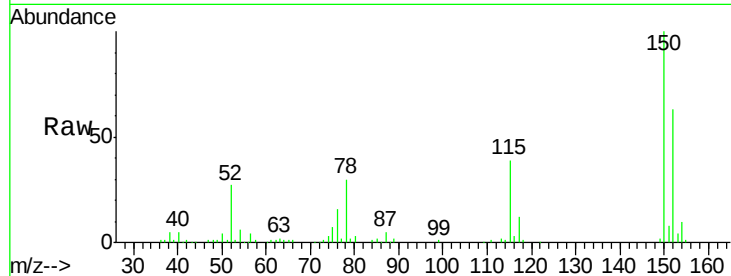




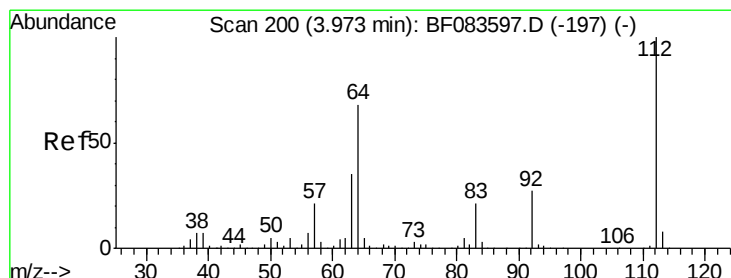
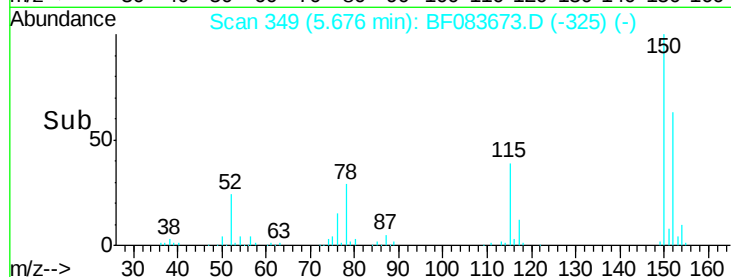
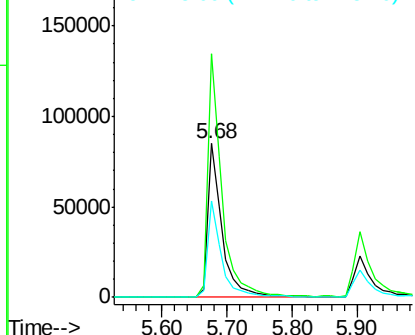
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.68 min Scan# 349
 Delta R.T. -0.02 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Tgt Ion:152 Resp: 130423
 Ion Ratio Lower Upper
 152 100
 150 158.4 126.5 189.7
 115 62.5 52.3 78.5

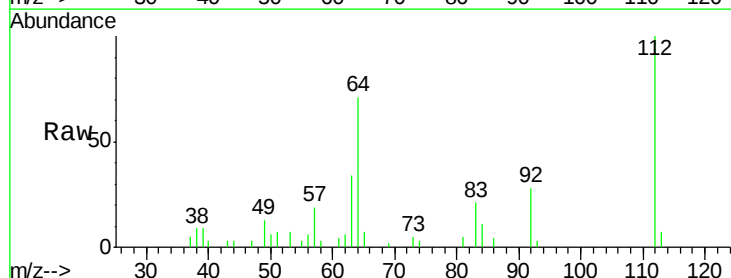


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

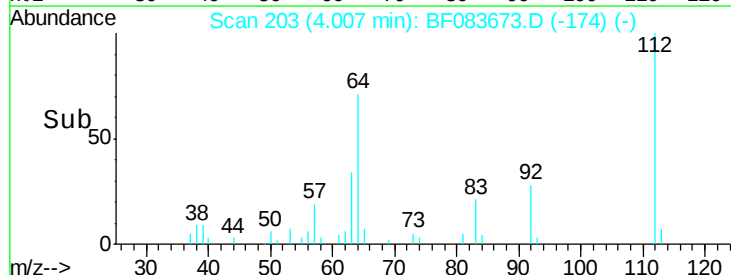
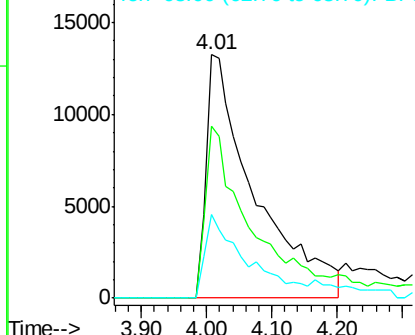


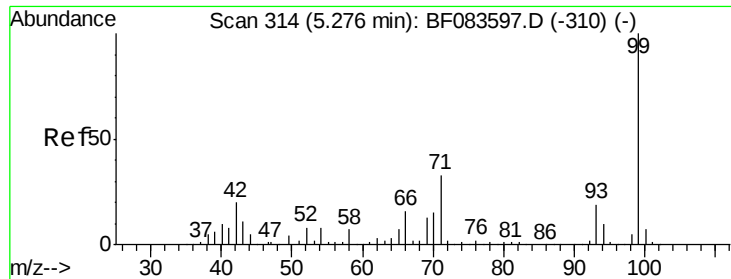
#5
 2-Fluorophenol
 Concen: 8.01 ng
 RT: 4.01 min Scan# 203
 Delta R.T. 0.03 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Tgt Ion:112 Resp: 68884
 Ion Ratio Lower Upper
 112 100
 64 70.7 50.5 75.7
 63 34.3 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 9.81 ng

RT: 5.29 min Scan# 315

Delta R.T. 0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

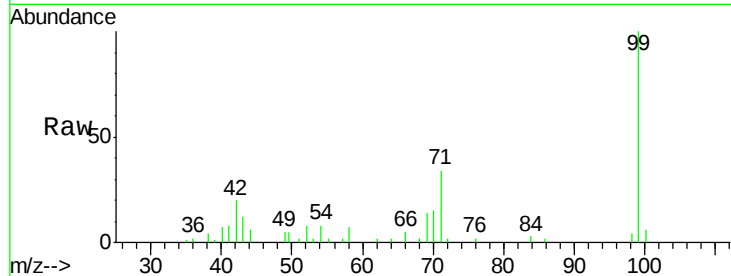
Tgt Ion: 99 Resp: 112709

Ion Ratio Lower Upper

99 100

42 19.6 17.3 25.9

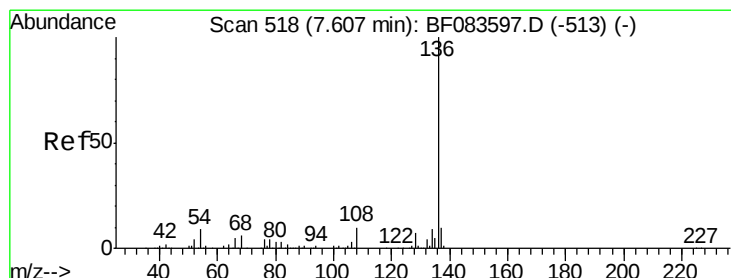
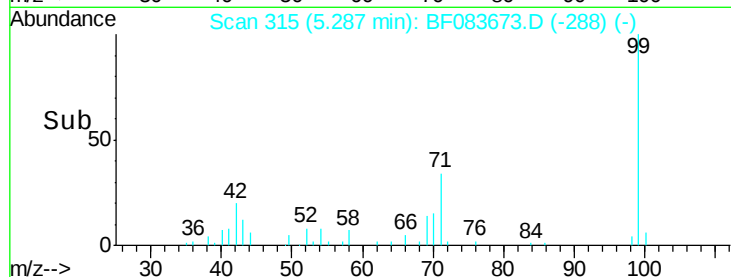
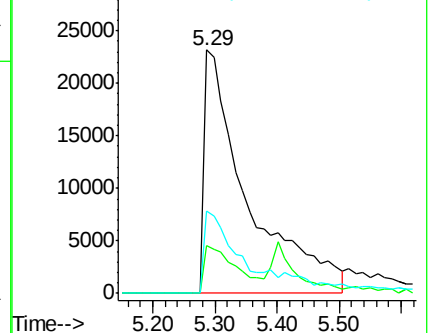
71 33.8 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.57 min Scan# 515

Delta R.T. -0.03 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Tgt Ion: 136 Resp: 506278

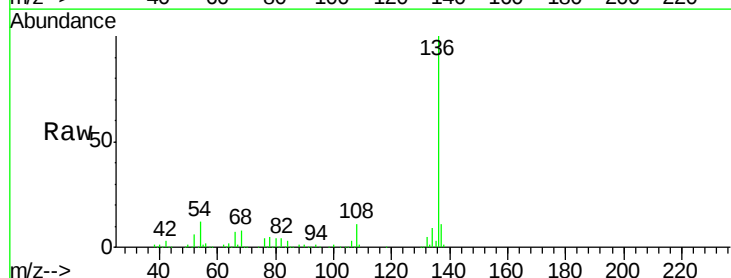
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 11.6 7.8 11.6

68 8.3 5.7 8.5

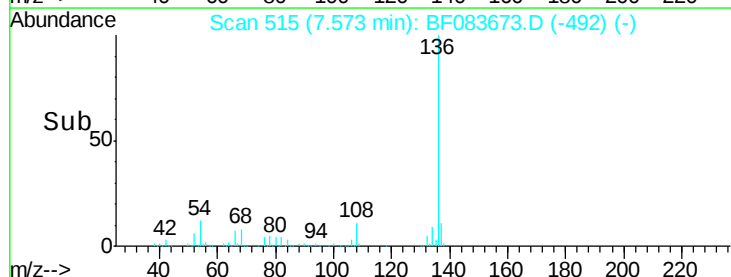
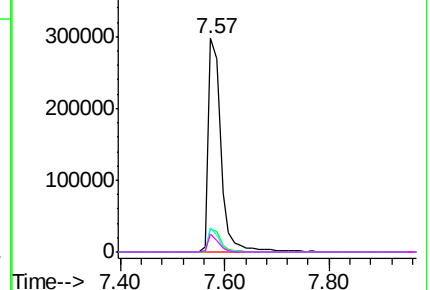


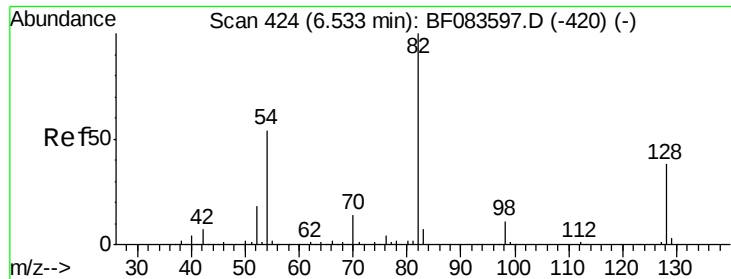
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

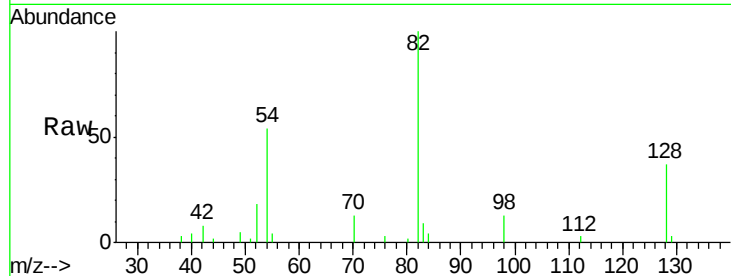




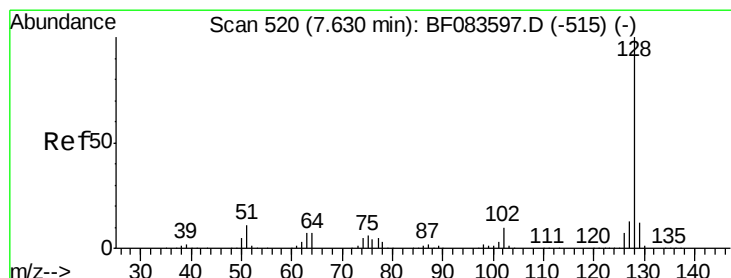
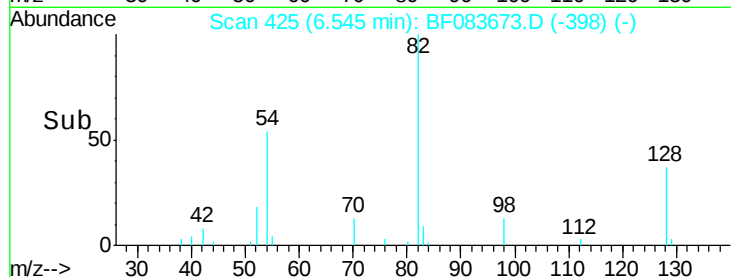
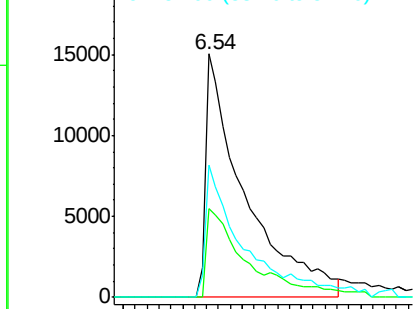
#23
 Nitrobenzene-d5
 Concen: 6.38 ng
 RT: 6.54 min Scan# 425
 Delta R.T. 0.01 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.7	46.1
54	54.3	42.5	63.7

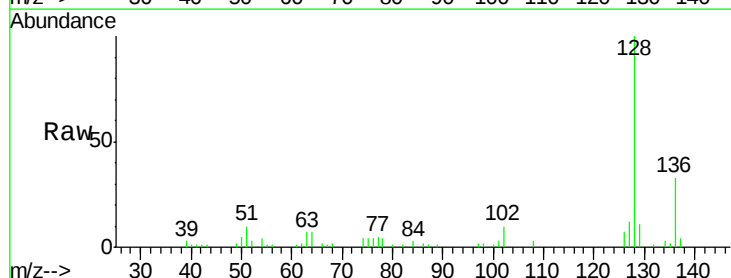


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

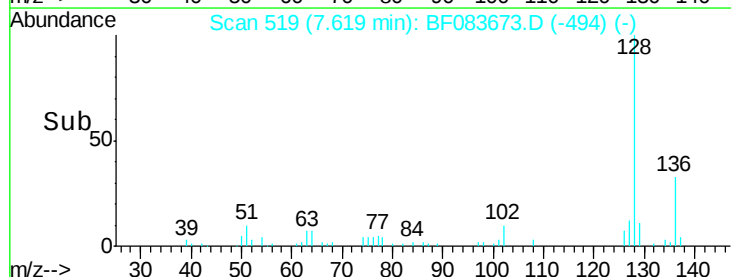
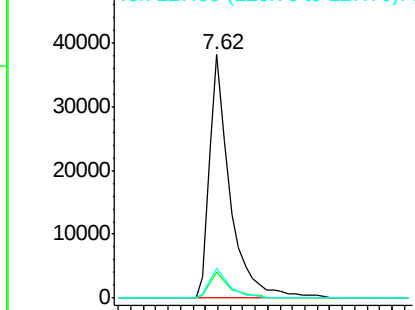


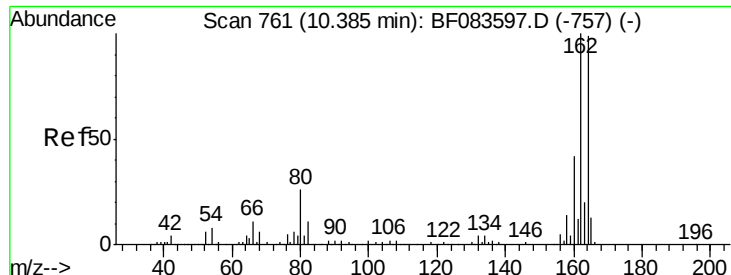
#31
 Naphthalene
 Concen: 3.26 ng
 RT: 7.62 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.5	10.6	16.0



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

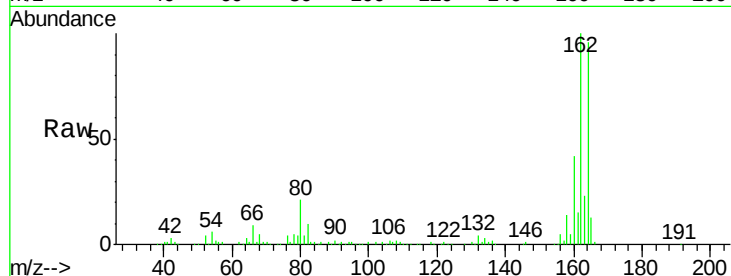




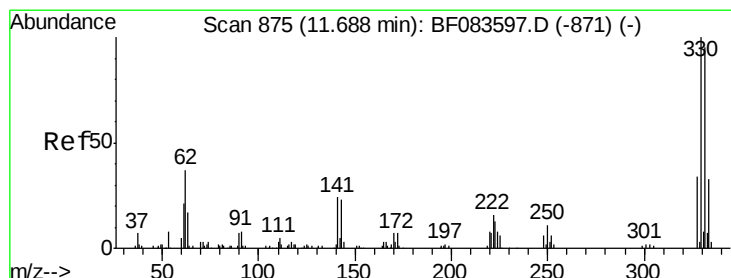
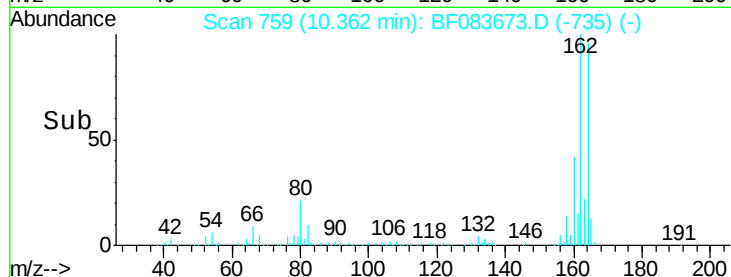
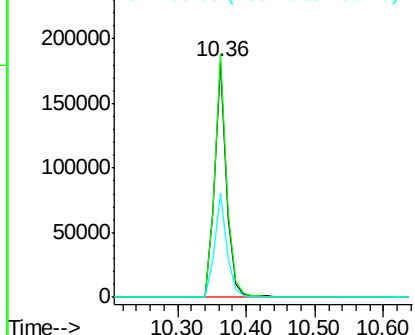
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.36 min Scan# 759
Delta R.T. -0.02 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tgt Ion:164 Resp: 225489
Ion Ratio Lower Upper
164 100
162 103.7 78.8 118.2
160 44.1 33.4 50.2

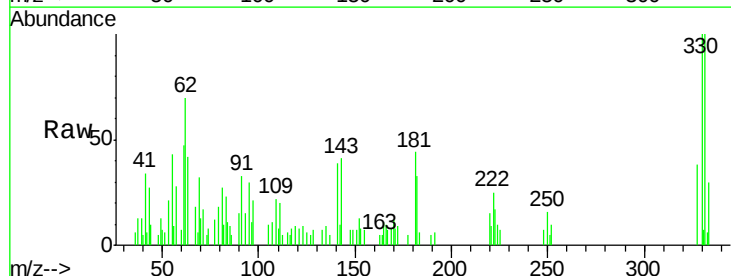


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

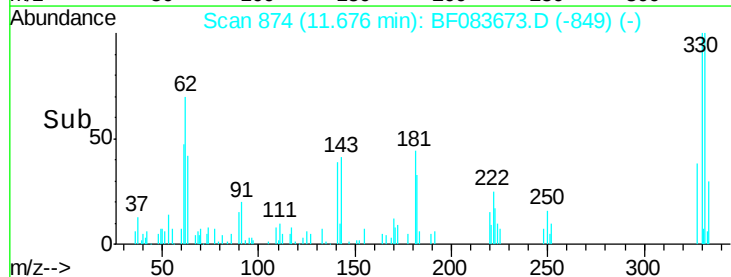
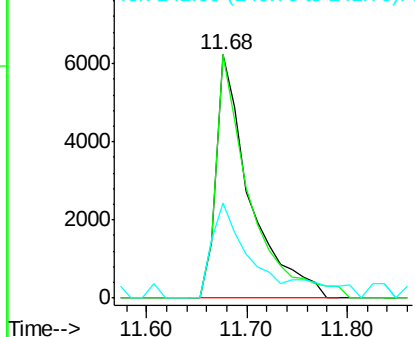


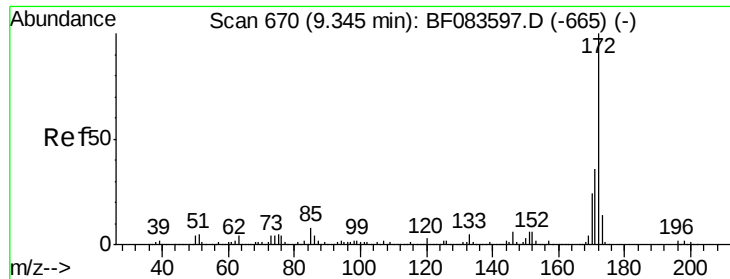
#41
2,4,6-Tribromophenol
Concen: 7.21 ng
RT: 11.68 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion:330 Resp: 14478
Ion Ratio Lower Upper
330 100
332 99.5 0.0 0.0#
141 51.6 0.0 0.0#



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 8.44 ng

RT: 9.32 min Scan# 668

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

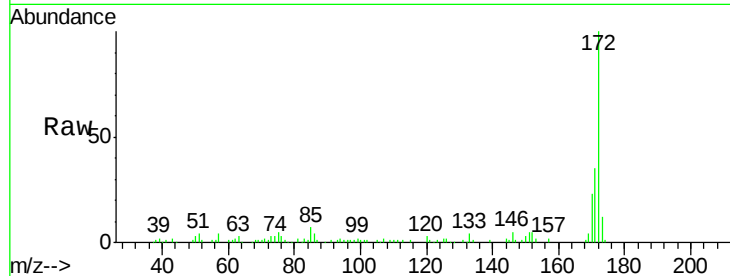
Tgt Ion:172 Resp: 135237

Ion Ratio Lower Upper

172 100

171 35.2 28.6 42.8

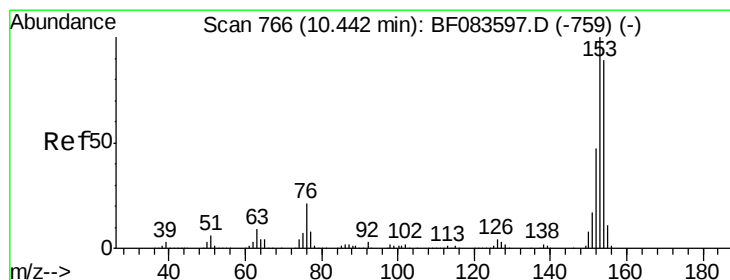
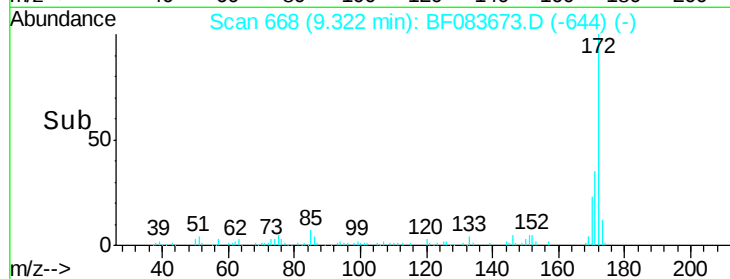
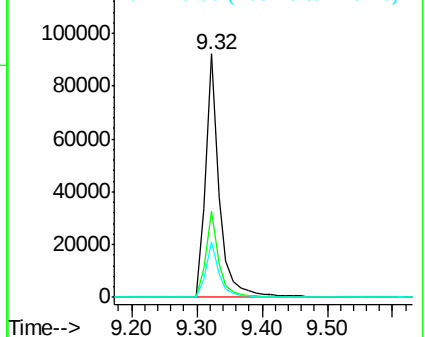
170 22.9 19.4 29.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51

Acenaphthene

Concen: 3.91 ng

RT: 10.42 min Scan# 764

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

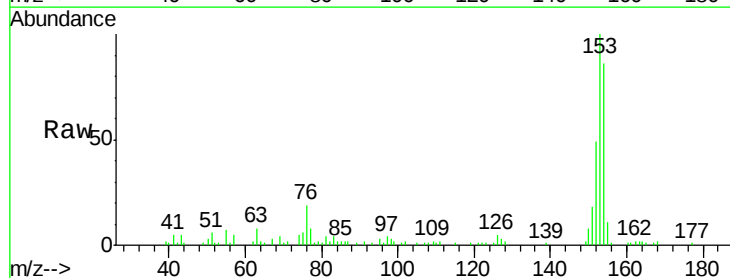
Tgt Ion:154 Resp: 54568

Ion Ratio Lower Upper

154 100

153 115.8 91.4 137.0

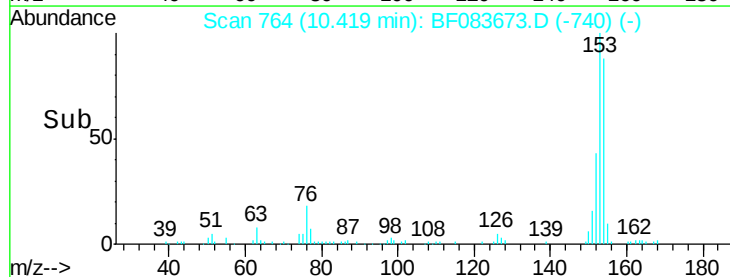
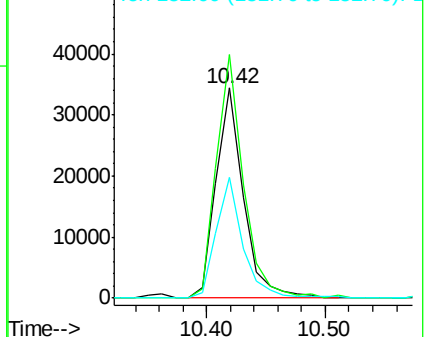
152 57.3 43.4 65.2

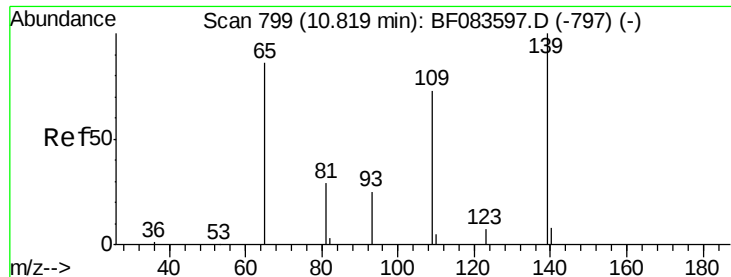


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

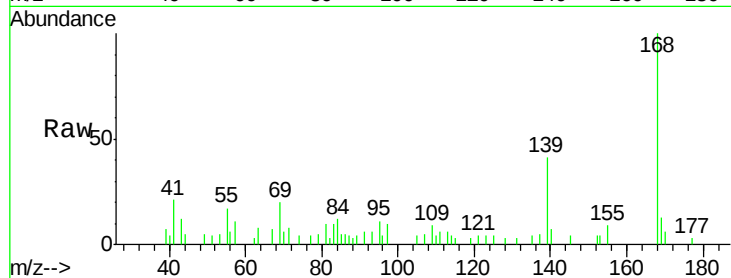




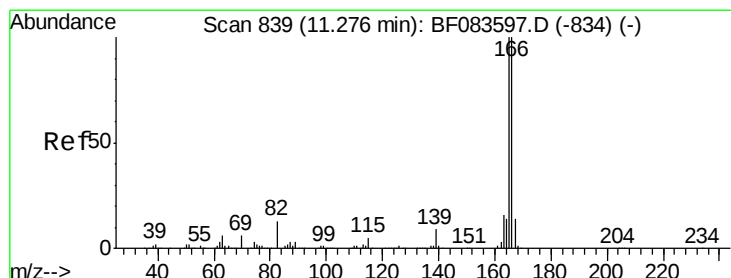
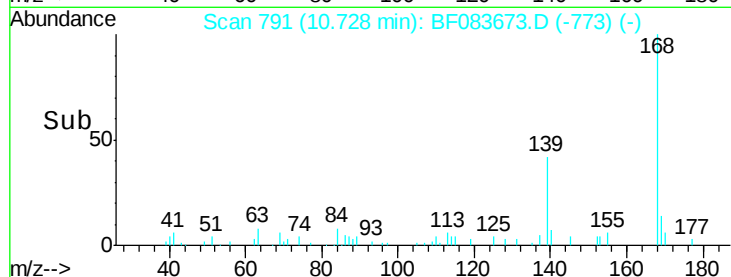
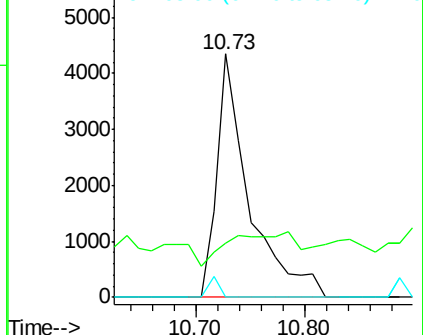
#55
4-Nitrophenol
Concen: 5.17 ng
RT: 10.73 min Scan# 791
Delta R.T. -0.09 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-03(0-8)DL

Tgt Ion:139 Resp: 8962
Ion Ratio Lower Upper
139 100
109 22.1 42.0 82.0#
65 0.0 89.2 129.2#

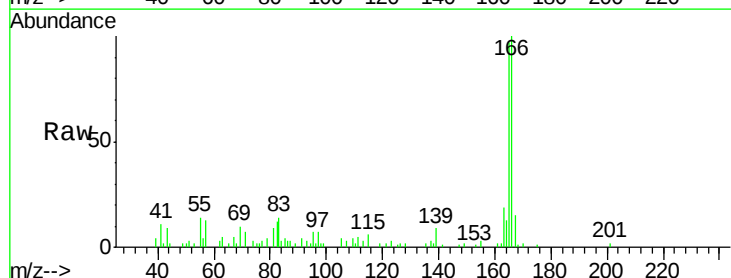


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

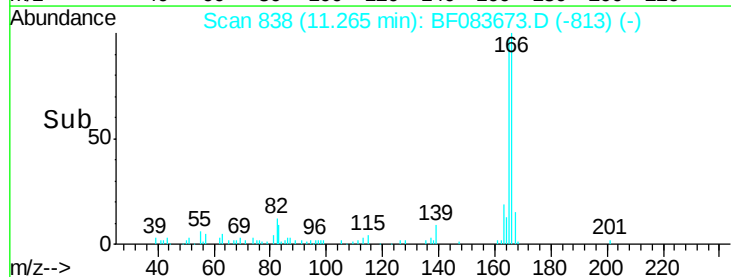
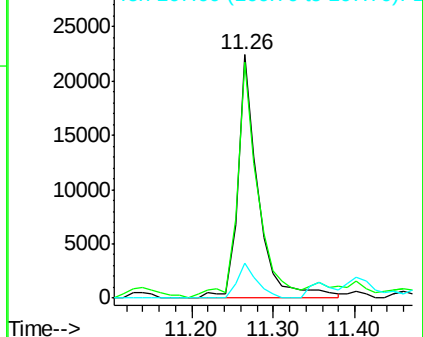


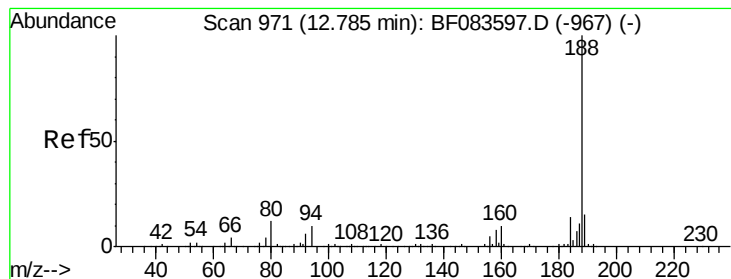
#57
Fluorene
Concen: 2.29 ng
RT: 11.26 min Scan# 838
Delta R.T. -0.01 min
Lab File: BF083673.D
Acq: 10 Dec 2015 8:45

Tgt Ion:166 Resp: 38672
Ion Ratio Lower Upper
166 100
165 97.1 80.0 120.0
167 14.6 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.76 min Scan# 969

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

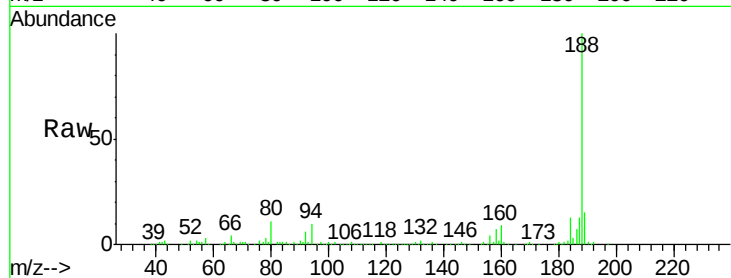
Tgt Ion:188 Resp: 354077

Ion Ratio Lower Upper

188 100

94 9.8 9.4 14.2

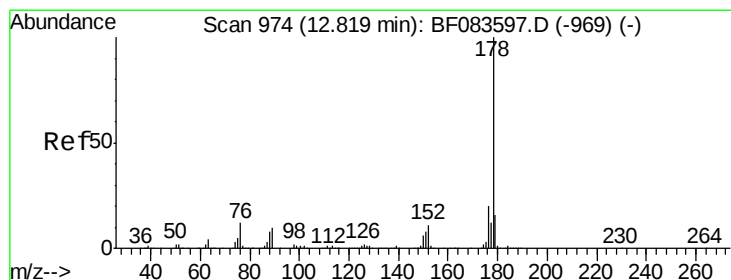
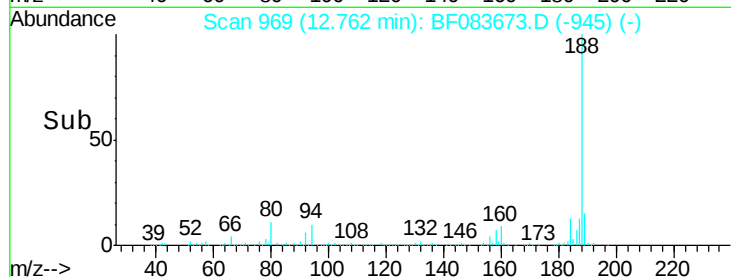
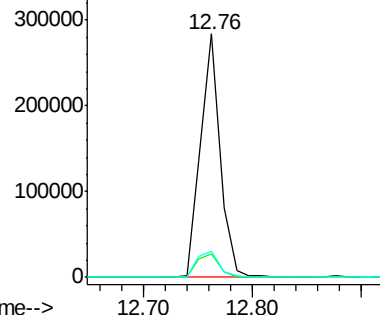
80 10.8 10.6 16.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 26.10 ng

RT: 12.80 min Scan# 972

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

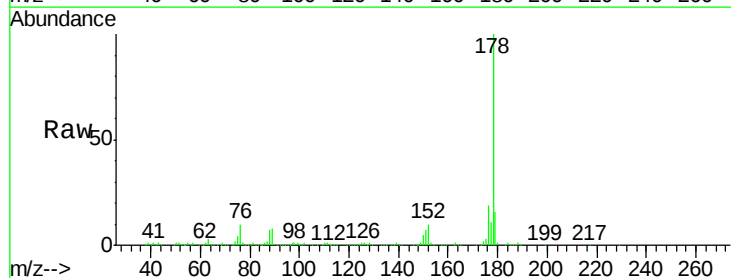
Tgt Ion:178 Resp: 530906

Ion Ratio Lower Upper

178 100

176 18.7 15.7 23.5

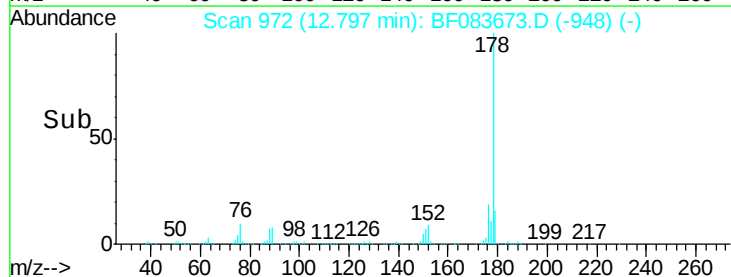
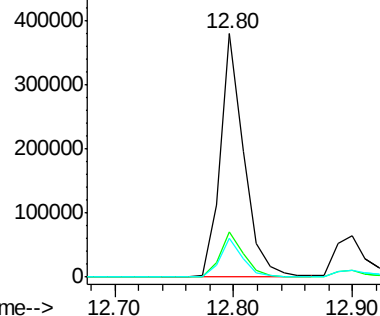
179 15.7 12.2 18.4

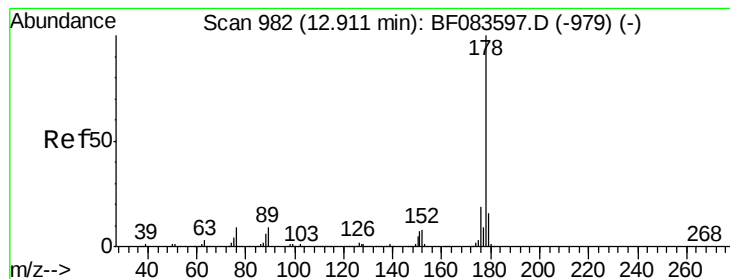


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.56 ng

RT: 12.90 min Scan# 981

Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

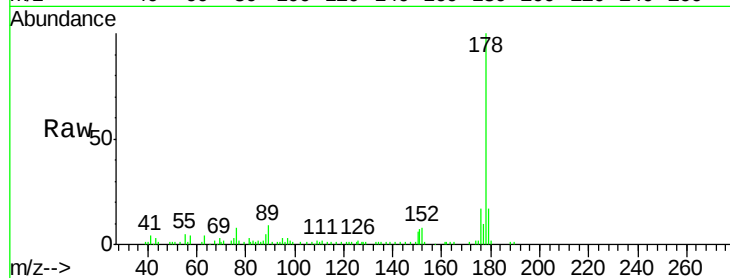
Tgt Ion:178 Resp: 117168

Ion Ratio Lower Upper

178 100

176 17.4 15.2 22.8

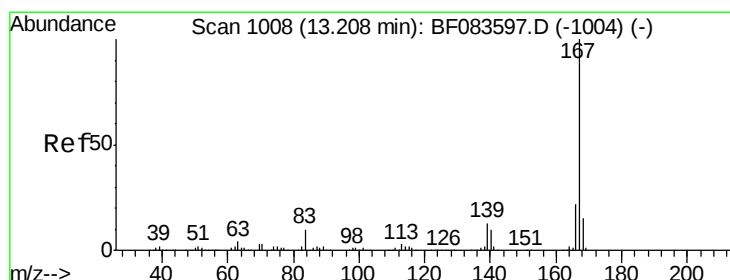
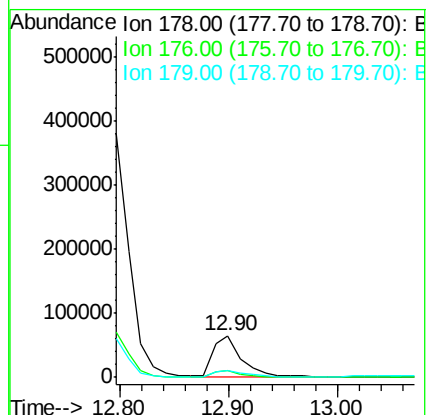
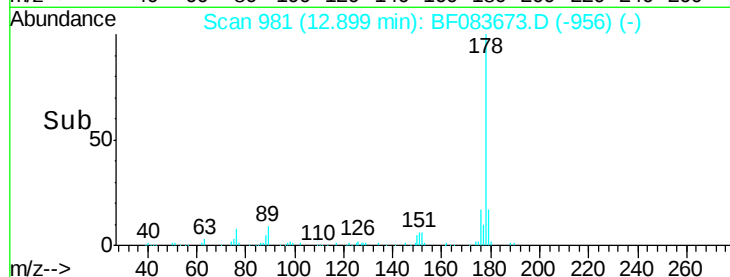
179 17.4 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 3.44 ng

RT: 13.21 min Scan# 1008

Delta R.T. 0.00 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

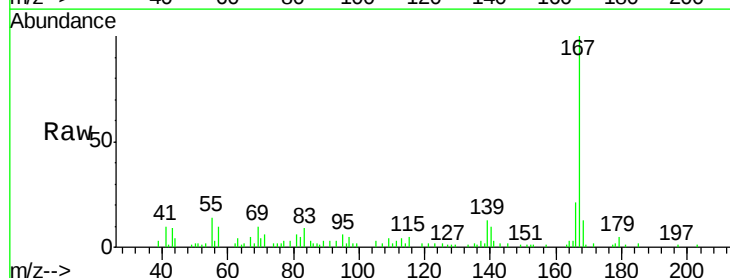
Tgt Ion:167 Resp: 62196

Ion Ratio Lower Upper

167 100

166 20.9 17.2 25.8

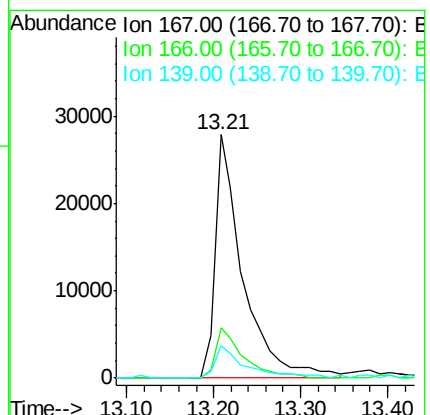
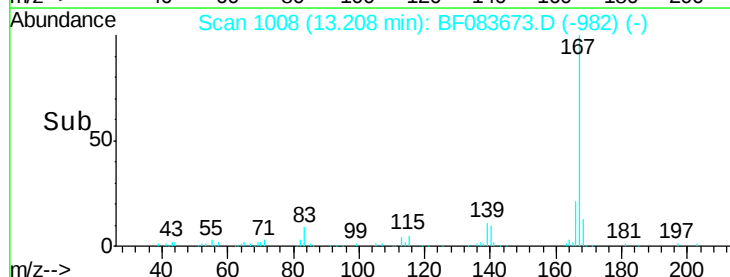
139 13.2 9.3 13.9

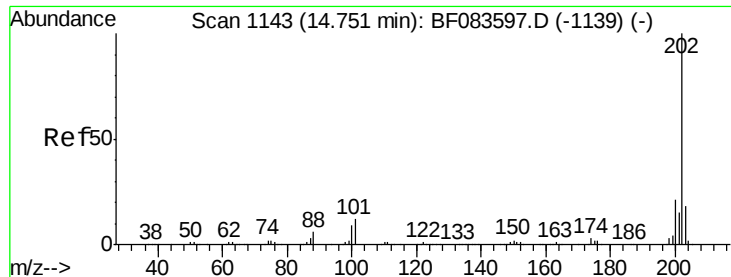


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

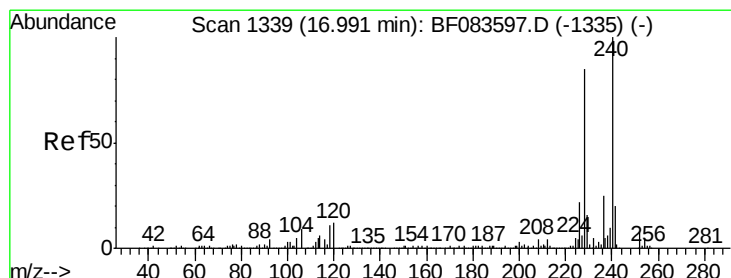
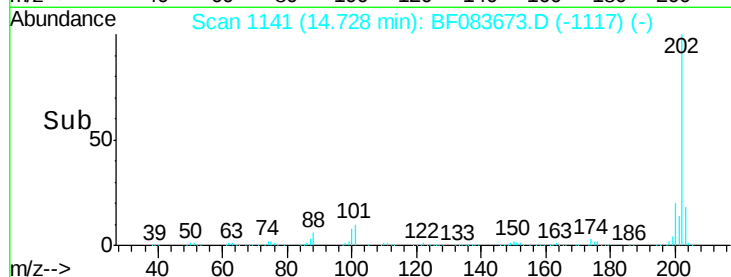
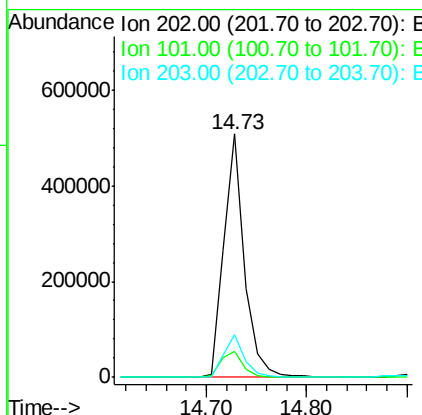
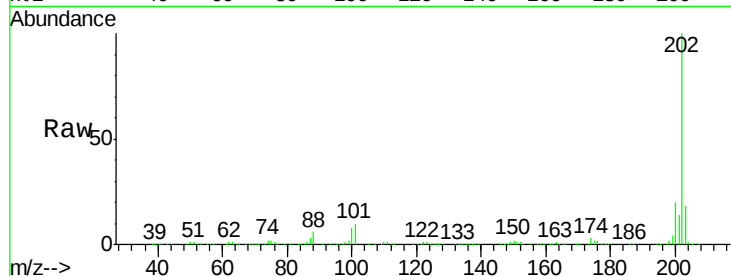




#74
 Fluoranthene
 Concen: 34.52 ng
 RT: 14.73 min Scan# 1141
 Delta R.T. -0.02 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

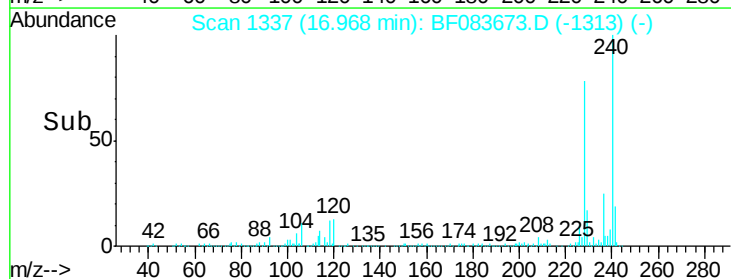
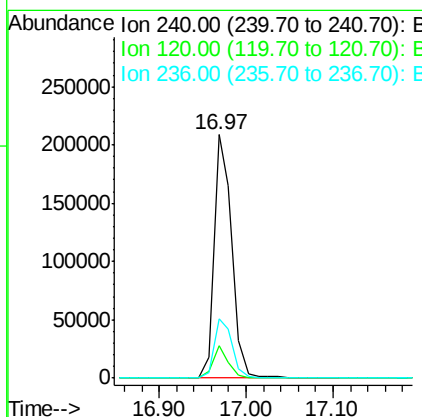
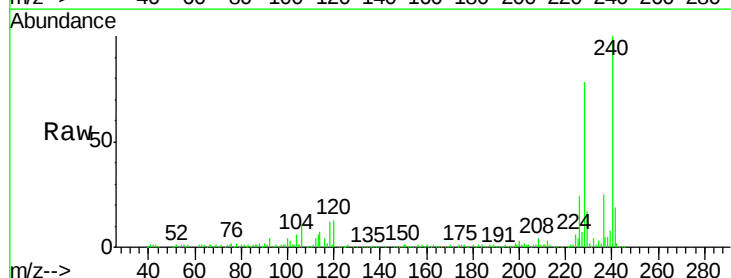
Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

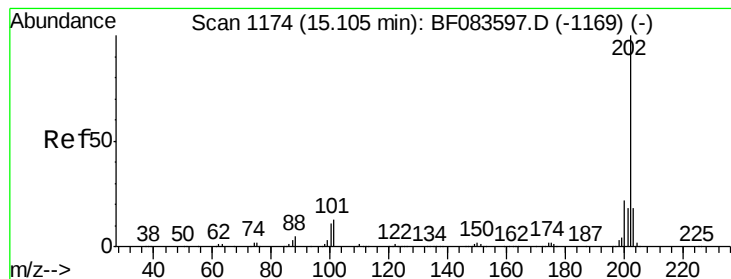
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.5
203	17.7	0.0	37.6



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 16.97 min Scan# 1337
 Delta R.T. -0.02 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.2	8.1	12.1#
236	24.6	20.8	31.2





#77

Pyrene

Concen: 29.00 ng

RT: 15.08 min Scan# 1172

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

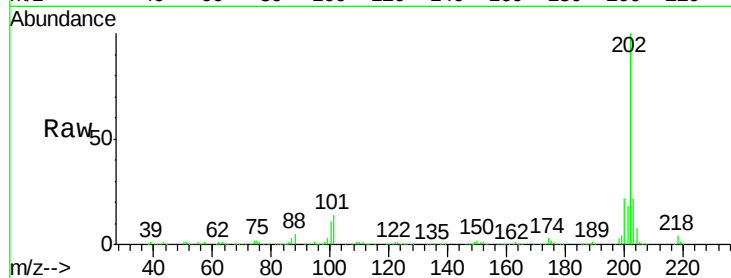
Tgt Ion: 202 Resp: 621194

Ion Ratio Lower Upper

202 100

200 21.5 16.7 25.1

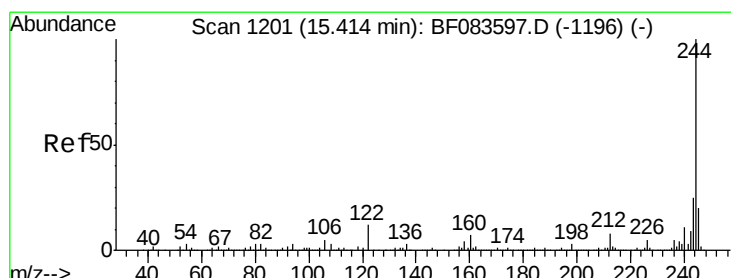
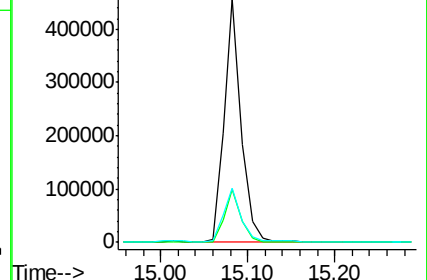
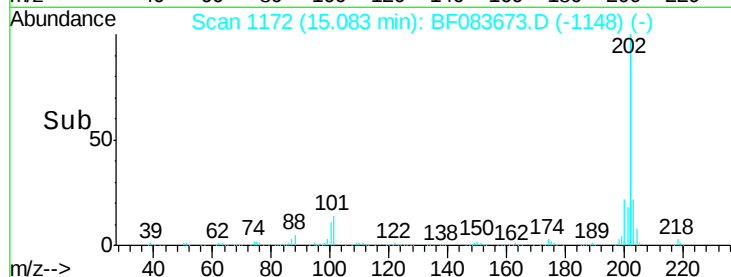
203 22.0 14.3 21.5#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 7.40 ng

RT: 15.39 min Scan# 1199

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

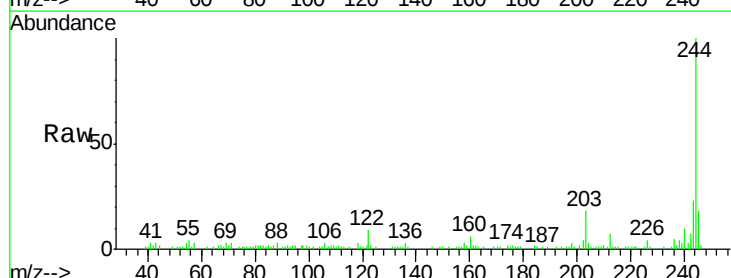
Tgt Ion: 244 Resp: 93606

Ion Ratio Lower Upper

244 100

212 6.7 6.1 9.1

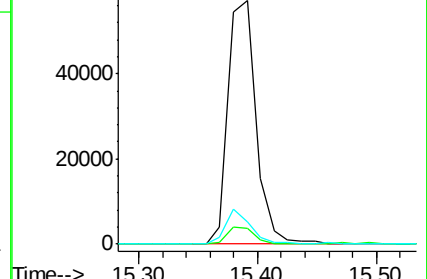
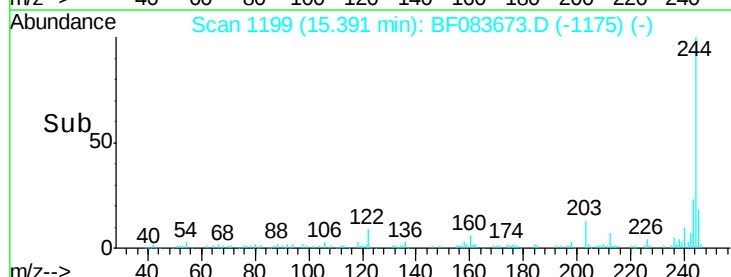
122 9.3 11.0 16.6#

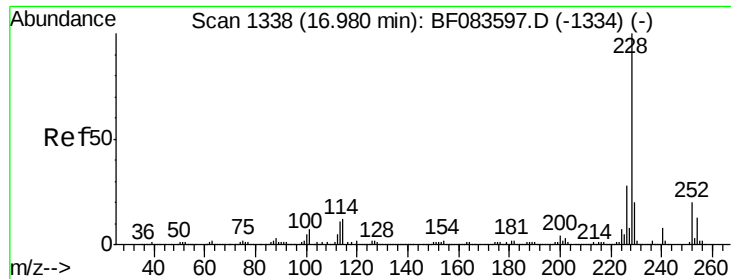


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 16.74 ng

RT: 16.96 min Scan# 1336

Delta R.T. -0.02 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

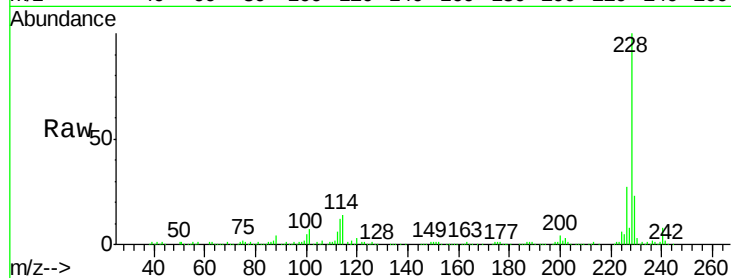
Tgt Ion:228 Resp: 291469

Ion Ratio Lower Upper

228 100

226 26.6 22.3 33.5

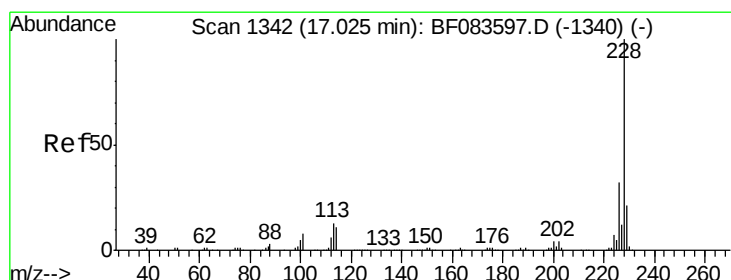
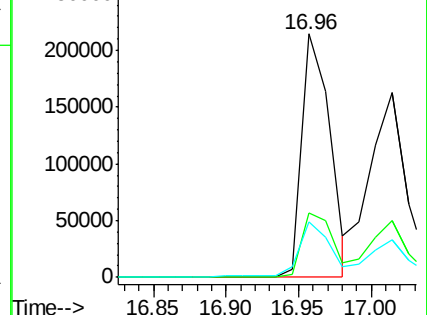
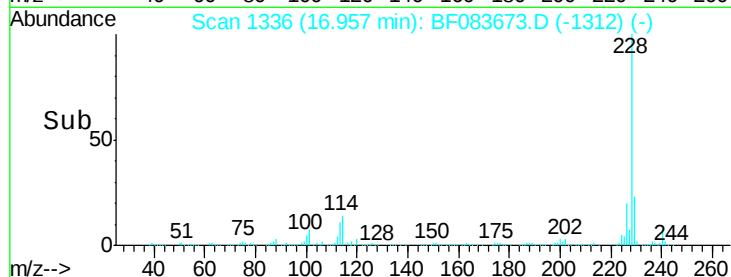
229 22.7 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 16.45 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

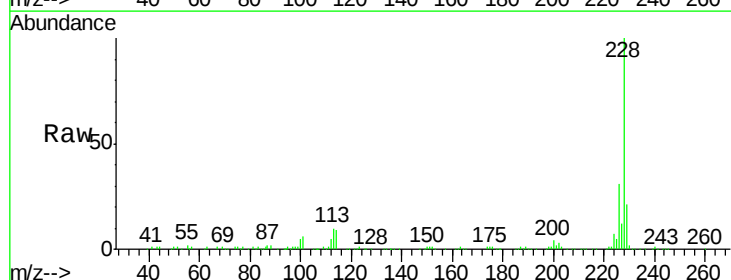
Tgt Ion:228 Resp: 287231

Ion Ratio Lower Upper

228 100

226 30.9 24.7 37.1

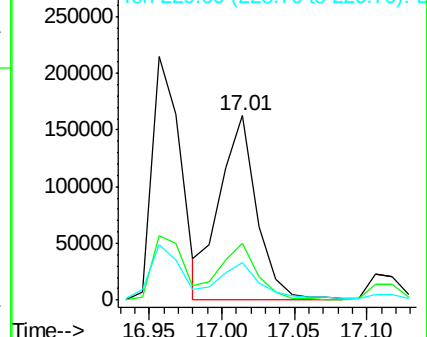
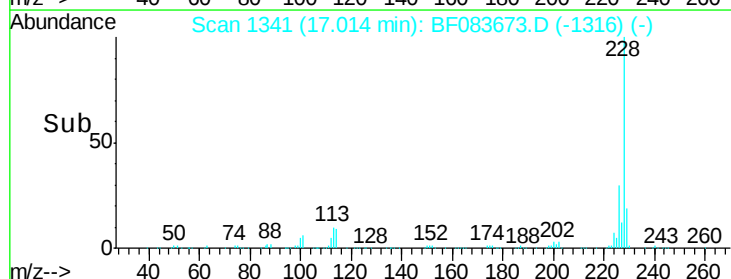
229 20.7 16.3 24.5

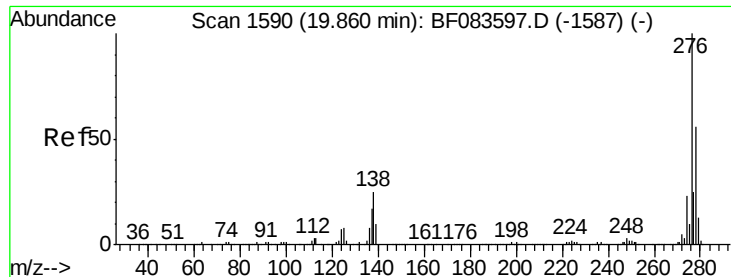


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

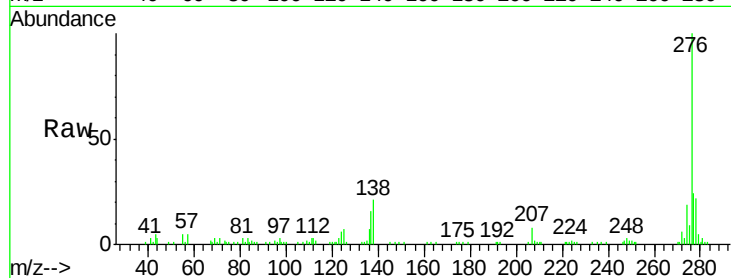




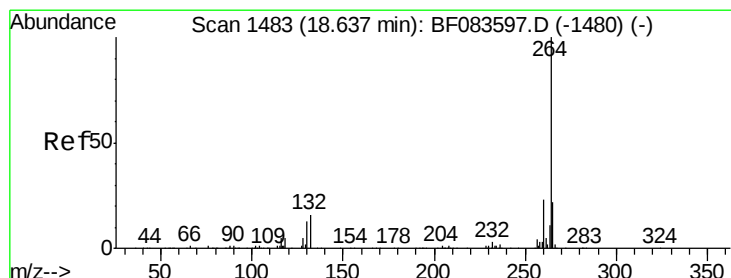
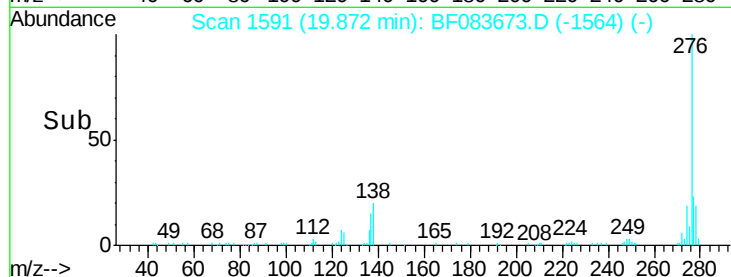
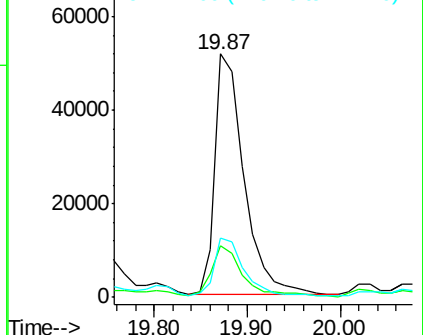
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.49 ng
 RT: 19.87 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-03(0-8)DL

Tgt Ion: 276 Resp: 111829
 Ion Ratio Lower Upper
 276 100
 138 24.2 0.0 0.0#
 277 23.3 0.0 0.0#

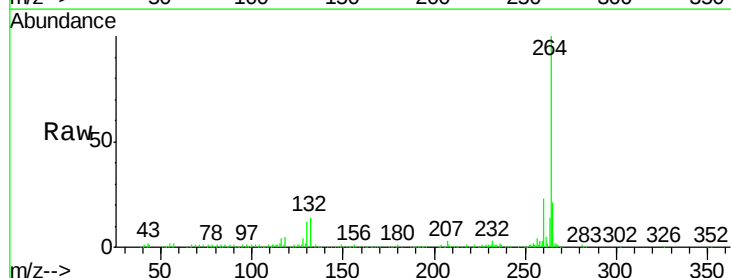


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

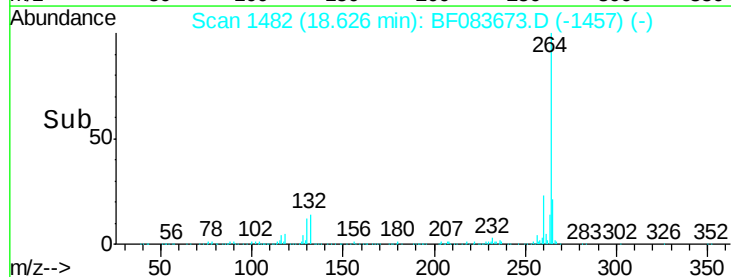
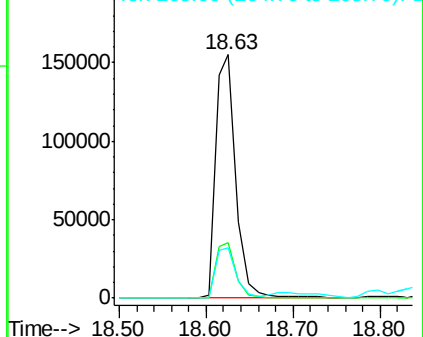


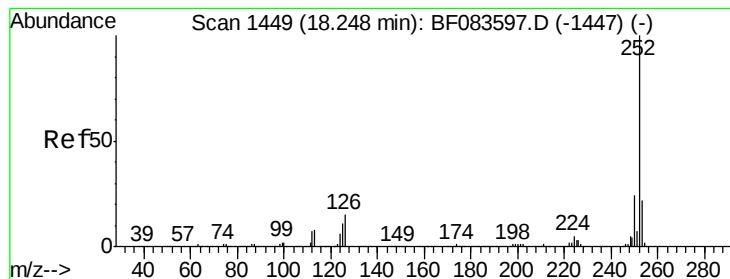
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 18.63 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF083673.D
 Acq: 10 Dec 2015 8:45

Tgt Ion: 264 Resp: 253060
 Ion Ratio Lower Upper
 264 100
 260 22.8 19.4 29.0
 265 20.6 17.8 26.6



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 28.75 ng

RT: 18.25 min Scan# 1449

Delta R.T. 0.00 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

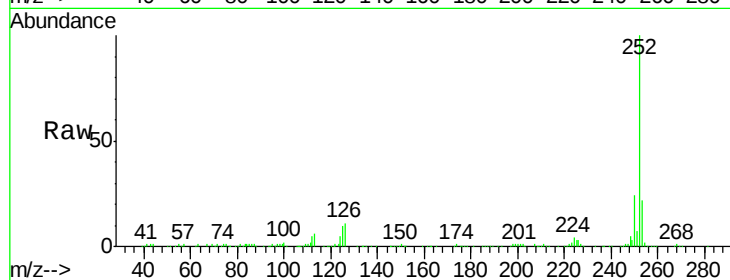
Tgt Ion:252 Resp: 414286

Ion Ratio Lower Upper

252 100

253 22.4 18.2 27.4

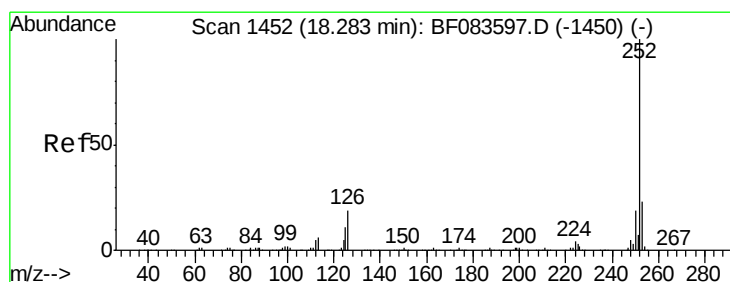
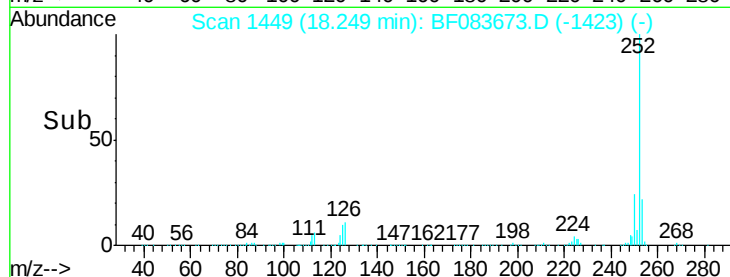
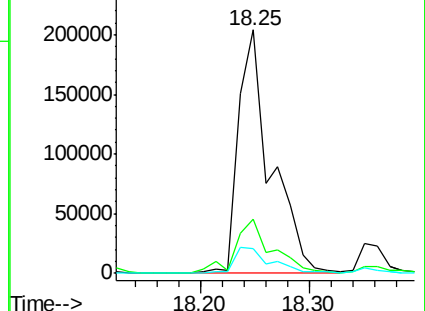
125 10.1 8.2 12.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 26.09 ng

RT: 18.25 min Scan# 1449

Delta R.T. -0.03 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

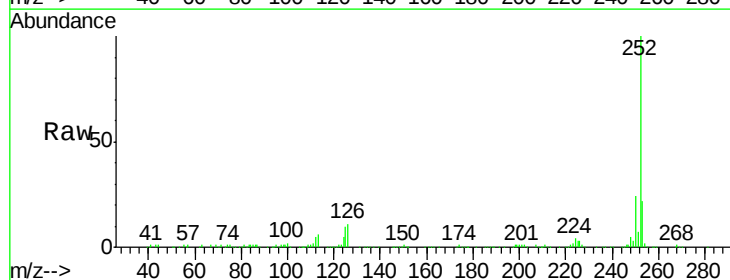
Tgt Ion:252 Resp: 414286

Ion Ratio Lower Upper

252 100

253 22.4 18.6 27.8

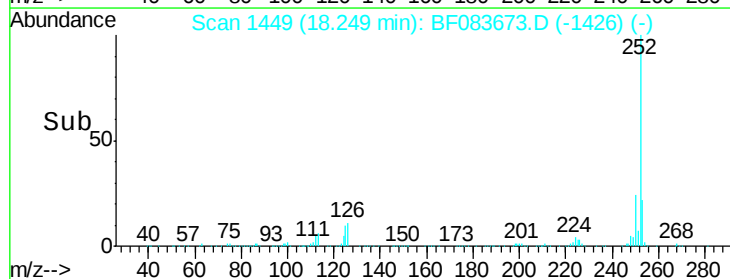
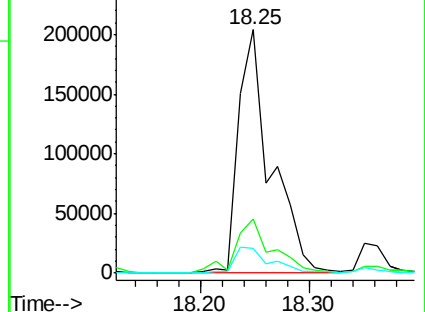
125 10.1 11.5 17.3#

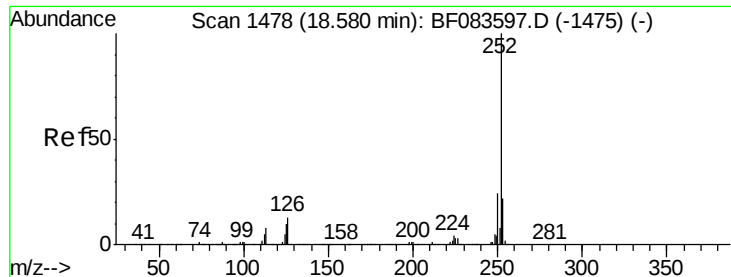


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 14.64 ng

RT: 18.57 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-03(0-8)DL

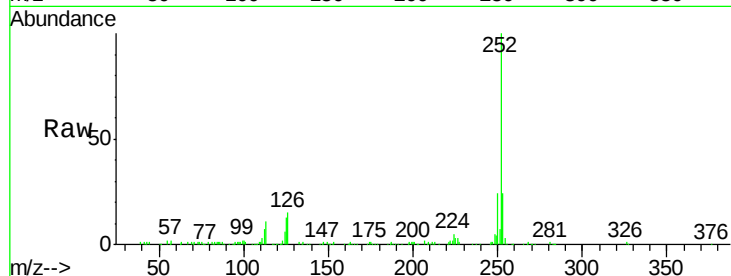
Tgt Ion:252 Resp: 205923

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

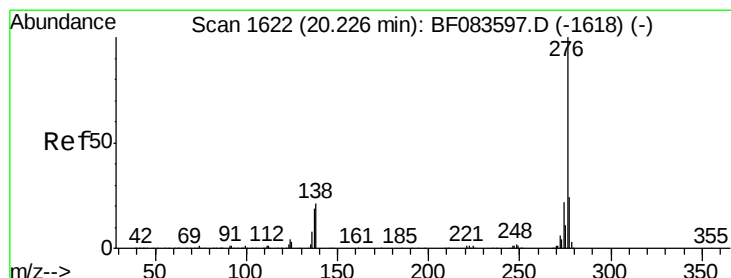
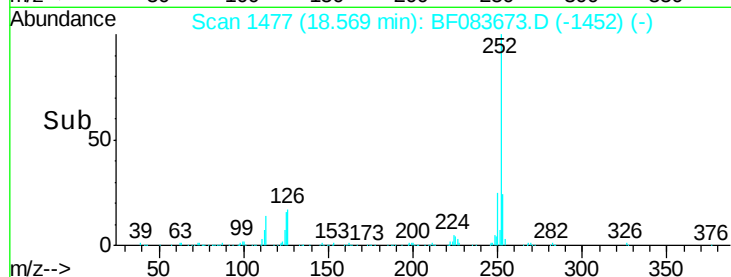
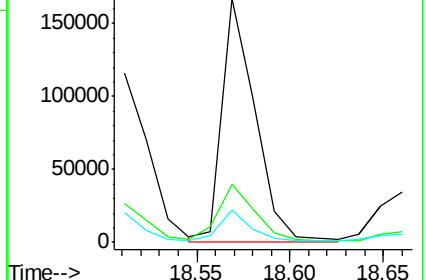
125 13.4 11.0 16.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 10.59 ng

RT: 20.24 min Scan# 1623

Delta R.T. 0.01 min

Lab File: BF083673.D

Acq: 10 Dec 2015 8:45

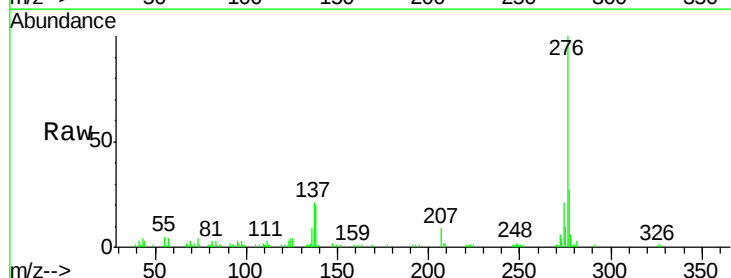
Tgt Ion:276 Resp: 110984

Ion Ratio Lower Upper

276 100

277 26.9 19.2 28.8

138 19.6 19.5 29.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

